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CONNECTING MEMBER FOR REINFORCING OUTER WALL

ABSTRACT

Provided is a reinforcing connecting member that connects an inner wall to an outer wall of a main building to support the outer wall and to improve a stability of the outer wall formed of decorating bricks.

When the outer wall is formed of decorating bricks, a heat insulating material is constructed on an outer side of a concrete inner wall, and then, the decorating bricks are placed on an outer portion of the heat insulating material with a predetermined interval therebetween to make the outer wall. In this case, when a height of the outer wall is increased, a support unit for supporting the outer wall is required. Therefore, the present invention provides a solution to maintain the stability of the outer wall, that is, the connecting members of the present invention are inserted into the inner wall of the main building at predetermined intervals and then are connected to the outer wall, and thus, the outer wall is supported by the connecting members based on the inner wall.

Technical Gist of the Invention

The present invention is to firmly build an outer wall formed of decorating bricks on an outer portion of a building. In order to install the connecting members of the present invention, small holes for receiving the connecting members are formed in an inner wall 9 of the building at predetermined intervals, and insertion portions 2 of the connecting members are inserted into the holes, and connecting rods 4 attached on end portions of the insertion portions 2 are inserted between decorating bricks 10. Then, the outer wall 8 is connected to the inner wall 9 via the connecting members, and thus, the stability of the outer wall can be maintained even

when the influence of weight thereof and external forces, due to rain, wind, and earthquake, are increased due to the increased height of the outer wall.

Structure and operation of the invention

According to the present invention, a connecting member 1 for reinforcing an outer wall includes a pair of an insertion portion 2 having a space therein and a screw 3 that is inserted into the insertion portion 2. A cut recess 5 and a protrusion 6 are formed on a front portion of the insertion portion 2. In addition, a loop 7 is formed on a rear end of the screw 3, and a connecting rod 4 formed in a  shape is attached to the loop 7.

The connecting rod 4 can be formed in a  shape.

The present invention having the above structure will be now described in more detail. FIG. 1 is a partially perspective view showing an installation status of the connecting member of the present invention. A heat insulating material 11 is disposed on an outer portion of the inner wall 9 of the building, and decorating bricks 10 are placed in a perpendicular direction on an outer portion of the heat insulating material 11 with a predetermined interval between the heat insulating material 11 and the bricks 10 to form the outer wall 8. In this case, the insertion portion 2 that is located on the front portion of the connecting member 1 according to the present invention is inserted into the inner wall 9 of the building at a predetermined interval, and the connecting rod 4 on the rear end portion of the connecting member 1 is fixed on a horizontal wire 12 that is placed on the decorating bricks 10 of the outer wall 8 to connect the outer wall 8 to the inner wall 9. On the other hand, a washer 30 prevents the rear end of the connecting member 1 from digging into the heat insulating material 11.

According to the connecting member 1 of the present invention, the insertion portion 2 is inserted into the hole formed in the inner wall 9 and the screw 3 is inserted into the insertion portion 2, and then, the cut recess 5 is opened while the screw 3 is inserted into the inner portion of the insertion portion 2. Then, the insertion portion 2 is firmly adhered in the inner wall 9 by the protrusion 6. In addition, the loop 7 is formed on the rear end of the screw 3 and the connecting rod 4 is formed on the loop 7, and when both branches 4' of the connecting rod 4 are

fixed on the horizontal wire 12 that is placed on the decorating brick 10, the outer wall 8 can be supported firmly by the connecting member of the present invention based on the inner wall 9.

The branches 4' of the connecting rod 4 can be fixed on the horizontal wire 12 by using a band or a clamp, however, the present invention is not limited thereto.

On the other hand, the loop 7 formed on the rear end of the screw 3 has an elongated recess 13 so that the connecting rod 4 connected to the elongated recess 13 can be moved in up and down directions as much as a length (l) of the elongated recess 13. Therefore, the connecting rod 4 can be easily fixed on the horizontal wire 12 on the decorating brick 10 even when the heights of the insertion portion 2 inserted in the inner wall 9 and the horizontal wire 12 are slightly different from each other.

Claims

1. A connecting member for reinforcing an outer wall, the connecting member comprising:

a pair of an insertion portion having a space therein and a screw installed into the insertion portion,

wherein the insertion portion includes a cut recess and a protrusion on a front portion of the insertion portion, and the screw includes a loop on a rear end thereof,

and a connecting rod formed in a  shape is attached to the loop.

2. The connecting member of claim 1, wherein the connecting rod

connected to the loop is formed in a  shape.